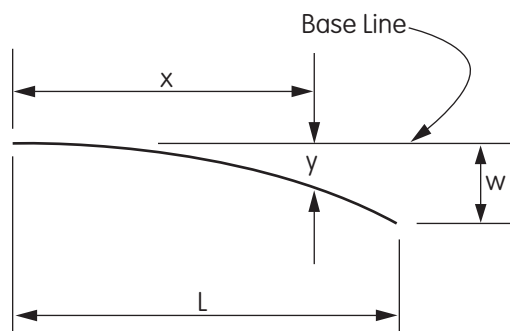


Curve Formulas



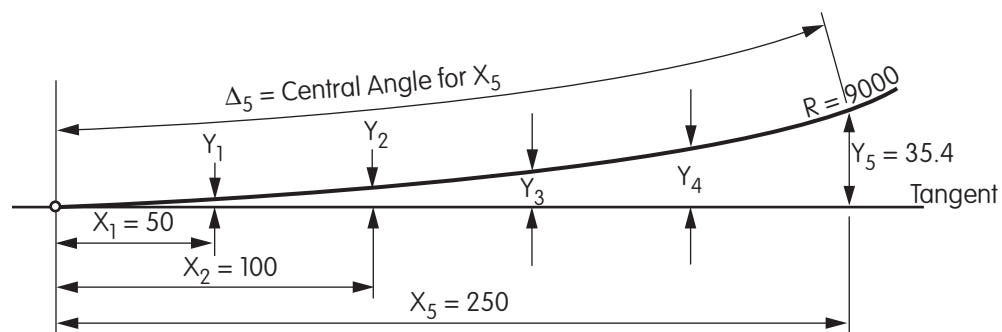
$$y = \frac{wx^2}{L^2}$$

L = Length of flare

w = Maximum offset

x = distance along base line

y = Offset from base line



Given: R and X

Sought: OFFSET Y

Note: For approximate results the simpler formula

$$(1) \text{SIND} = \frac{X}{R}$$

$$\left(Y = \frac{X^2}{2R} \right)$$

$$(2) Y = R \text{ VERS } \Delta = R (1 - \cos \Delta)$$

Given: Y and X

Sought: R

$$(1) \text{TAN } \frac{\Delta}{2} = \frac{Y}{X}$$

$$(2) R = \frac{X}{\sin \Delta}$$

may be used. (The error is 1% when $X = 0.2R$) This table may be used for other Radii by moving the decimal equally in R , X , and Y .